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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/498,525	02/04/2000	Hamam Elabd	73234	8921

7590 04/22/2003

Pillsbury Madison & Sutro LLP
1100 New York Avenue N W
Ninth Floor East Tower
Washington, DC 20005-3918

EXAMINER

VO, LILIAN

ART UNIT	PAPER NUMBER
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2127

DATE MAILED: 04/22/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/498,525	Applicant(s) ELABD, HAMMAM	
	Examiner Lilian Vo	Art Unit 2127	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 February 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-32 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I, claims 1 – 14, which drawn to a system for providing parallel processing of data to a plurality of DSPs with program/data memory and ping-pong memory interface, and how the communication data is transmitted, classified in class 709, subclass 250.

Group II, claims 15 – 30, which drawn to a DSP load management system, which also include a decoder for decoding instructions such as load and algorithm switching instructions to provide optimal processing, classified in class 709, subclass 212.

Group III, claims 21 – 30, which drawn to a method of providing parallel processing of data to a plurality of DSPs which write the communication data to a selected register from a plurality of registers, wherein the register is selected based on the current load status and different algorithms loaded, classified in class 709, subclass 200.

Group IV, claims 31 – 32, which drawn to a method of optimizing the processing capabilities of a plurality of digital signal processors on an SOC devices having a DSP load management system with inter-transaction, intra-transaction, and hardware mapping optimizations, classified in class 709, subclass 223.

2. The inventions are distinct, each from the other because of the following reasons:
Inventions I - IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be

Art Unit: 2127

separately usable. In the instant case, invention I has separate utility such as in a system lacking a decoder for decoding instructions such as load and algorithm switching instructions to provide optimal processing, the writing of the communication data to a selected register from a plurality of registers, wherein the register is selected based on the current load status and different algorithms loaded, and a method of optimizing the processing capabilities of a plurality of digital signal processors on an SOC devices having a DSP load management system with inter-transaction, intra-transaction, and hardware mapping optimizations. Invention II has separate utility such as in a system lacking the writing of the communication data to a selected register from a plurality of registers, wherein the register is selected based on the current load status and different algorithms loaded, and a method of optimizing the processing capabilities of a plurality of digital signal processors on an SOC devices having a DSP load management system with inter-transaction, intra-transaction, and hardware mapping optimizations. Invention III has separate utility such as in a system lacking a method of optimizing the processing capabilities of a plurality of digital signal processors on an SOC devices having a DSP load management system with inter-transaction, intra-transaction, and hardware mapping optimizations. See MPEP § 806.05(d).

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 2127

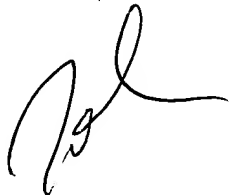
4. Because these inventions are distinct for the reasons given above and the search required for one group is not required for another group, restriction for examination purposes as indicated is proper.

5. A telephone call was made to Chang Kim on 4/15/2003 to request an oral election to the above restriction requirement, but did not result in an election being made.

6. Applicant is advised that the reply to this requirement to be completed must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 703-305-7864.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900. .



Lilian Vo
Examiner
Art Unit 2127

lv
April 17, 2003

**JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100**